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TITLE: BIOIMPLANTATION MATERIAL AND ITS PRODUCTION

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ABSTRACT:

PURPOSE: To provide the bioimplantation material with adequate tacky adhesiveness to prevent the protrusion thereof to the outside when the material is filled into the defect part of the bone by forming composites in which chitin of an cross-linked state carries the particles of a calcium phosphate compd., coating the surface of the composites with the uncross-linked chitin and kneading the compds. together with liquid.

CONSTITUTION: The powder of the calcium phosphate compd. having $\leq 100\mu\text{m}$ average grain size is mixed with a chitin soln. of $\geq 5\%$ concn. and after the

individual soln. mixtures are air dried, the composites 4 in which the chitin 3 of the cross-linked state carries the particles 2 of the calcium phosphate compd. are formed. The mixture obtd. by mixing the composite 4 classified to 50 to 500 μ m average grain sizes with the chitin soln. and air drying the soln. mixture is classified to 200 to 1000 μ m average grain sizes, by which the composites 4 coated with the uncross-linked chitin films 5 on the surfaces are aggregated to a granular form. The bioimplantation material 1 produced in such a manner generates the proper tacky adhesiveness when kneaded together with the liquid, such as physiological salt soln. The movement or dislodgment thereof does not arise even if the material is filled into the defect part of the bone.

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